

FILIMONOV, V.A.

Decay of the Σ^+ p hypernucleus. Zhur. eksp. 1 teor. fiz. 45 no.6:1954-1959 D '63. (MIRA 17:2)

1. Institut yadernoy fiziki, elektroniki i avtomatiki Tomskogo politekhnicheskogo instituta.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

KAS-UNICIDET, A.P.; PILINOROV, V.A.

Leberatory apparatus for studying the high-speed pyrolysis of sour musat in the gas suspension of a solid heat corrier.

Ispol*. tvord. topl., sor. mas. 1 gass no. 5:107-112 *64 (MHA 19:2)

ACC NR: AT7006846

SOURCE CODE: UR/0000/66/000/000/0101/0110

AUTHOR: Pechuro, N. S. (Professor, Doctor of technical sciences); Pesin, O. Yu.; Filimonov, V. A.

ORG: none

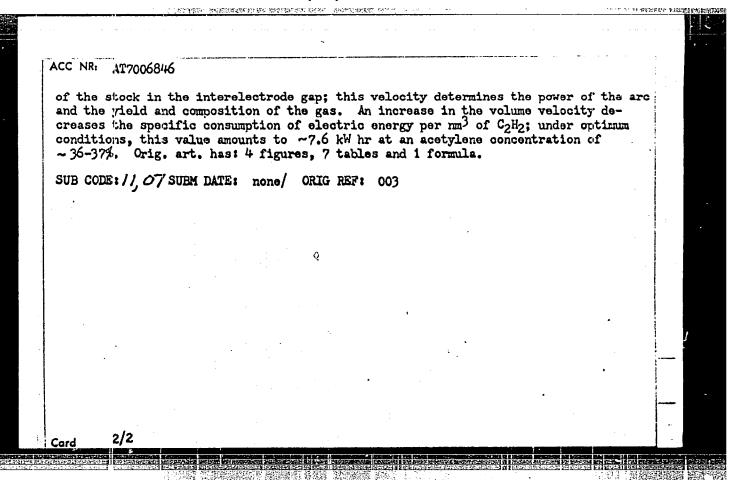
TITIE: Effect of electrode diameter and stock circulation on the decomposition of liquid hydrocarbons in electric discharges

SOURCE: Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhu-shchikh stankov. Khimicheskiye reaktsii organicheskikh produktov v elektricheskikh razryadakh (Chemical reactions of organic products in electric discharges): Moscow, Izd-vo Nauka, 1966, 101-110

TOPIC TAGS: electrocracking, are discharge, petroleum product, hydrocarbon

ABSTRACT: The effect of outer and inner electrode diameter and stock circulation on the electrocracking of a petroleum product was studied under both stationary and dynamic conditions in a low-voltage alternating-current arc. The quantity of stock was varied from 0 to 17.0 liters/min, and the power of the arc discharge from ~0.4 to 4.0 kW. It was found that an increase in the amount of circulating stock and inner electrode diameter and a decrease in the outer diameter permit an increase in the yield of gas per unit time and the acetylene content of the gas. It is shown that the influence of D, d and Q manifests itself in a change of the volume velocity

Card 1/2



FILIMONOV, V.G. (MOSKVA)

Conditioned reflex chamber for the study of higher nervous activity in rats by defense methods. Pat.fiziol. i eksp.terap. 3 no.6:64-65 N-D '59. (MIRA 13:3)

1. Iz kafedry patologicheskoy fiziologii (zaveduyushchiy S.M. Pav-lenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(CENTRAL NERVOUS SYSTEM physiol.)
(REFLEX CONDITIONED)

FILIMONOV, V.G.

Method of electrods implanation in the nerve for reading biopotentials in a chronic experiment. Fiziol. zhur. SSSR 46 no. 9:1165-1167 S *160. (MIRA 13:10)

l. From the Chair of Pathological Physiology, Sechenov First Medical Institute, Moscow.
(EIECTROPHYSIOLOGY)

FILIMONOV, V.G. (Moskva)

Technology of fising "AKR-7" plastic in making an electrode holder for recording cerebral currents. Pat.fiziol.i eksp. 5 no.1:70-72 Ja-F '61. (MIRA 14:6)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. S.M.Pavlenko). I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. (ELECTROENCEPHALOGRAPHI) (ACRYLIC RESINS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

SUCHKOV, V.V.; FILIMONOV, V.G. Multichannel photoelectronic rheograph. Fiziol. zhur. 47 no.11: (MIRA 14:11)

1434-1439 N '61.

1. From the Laboratory for Physiology of Abnormal Bodily Reactivity, I.M.Setchenov Medical Institute, Moscow.
(BLOOD...CIRCULATION) (LABORATORIES...APPARATUS AND SUPPLIES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

PILIMONOV, V.G. (Moskva)

Device for recording respiration. Pat. fiziol. i eksp. terap. 6 no.3874-75 My-Je 62 (MIRA 17:2)

1. Iz laboratorii po izucheniyu reaktivnosti pri kafedre patofiziologii (zav. - prof. S.M. Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

FILIMONOV, V.G. (Moskva)

Modified electrophysiological indices of the cerebral cortex, hypothalamus and vagus nerve under the influence of sensitization of the body. Pat. fiziol. i eksp. terap. 6 no.6:45-51 N-D'62 (MIRA 17:3)

1. Iz laboratorii po izucheniyu reaktivnosti o-ganizma pri kafedre patofiziologii (zav. - zasluzhennyy depatel nauki RSFSR prof. S.M. Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

FILIMONOV, V.G. [Filimonov, V.H.]

Photostimulator for electroencephalographic studies. Fiziol. zhur. [Ukr.] 10 no.3:411-413 My-Je 64. (MIRA 18:9)

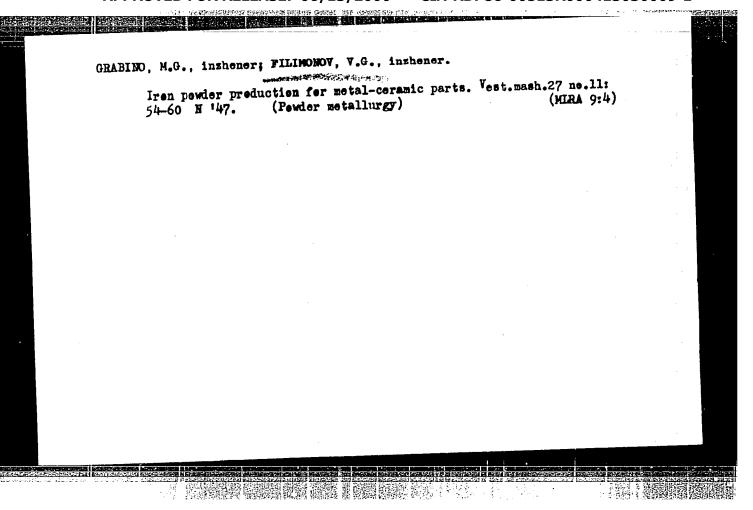
l. Kafedra patologicheskoj fiziologii l-go Moskovskogo meditsinskogo instituta im. Sechenova.

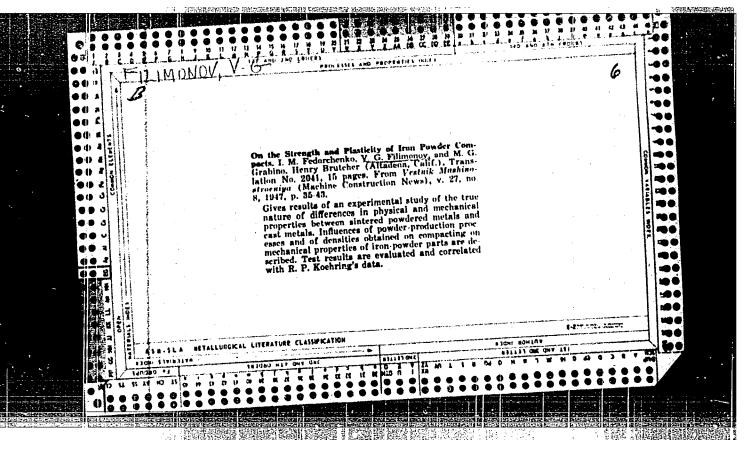
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

ABINDER, A.A., FILIMONOV, V.G.

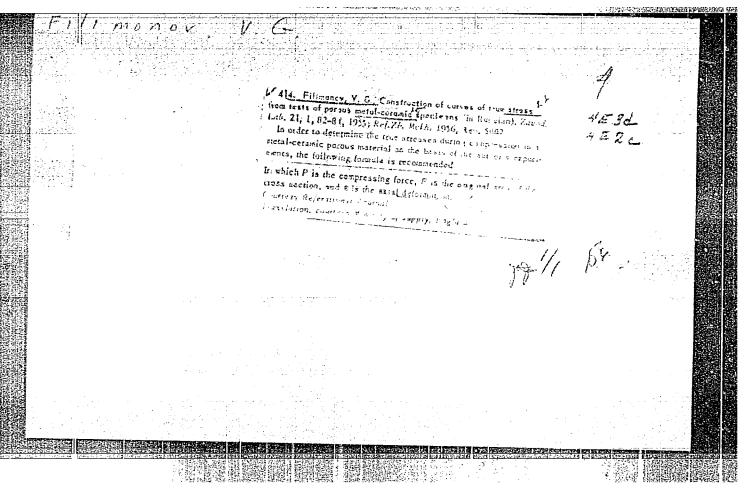
Effect of the changed state of the nervous system on the development of protein sensitization of the organism. Pat. fiziol. i eksp. terap. 9 no.3:76-77 My-Je 165. (MIRA 18:9)

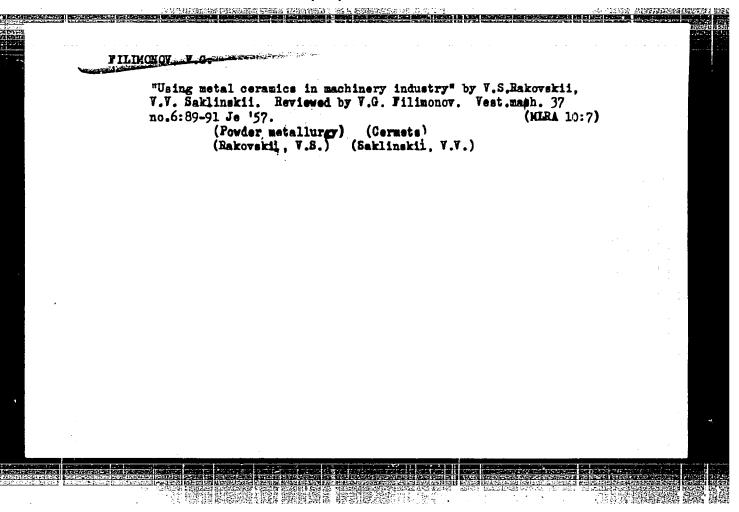
1. Kafadra patofiziologii (zav.- prof. S.M. Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

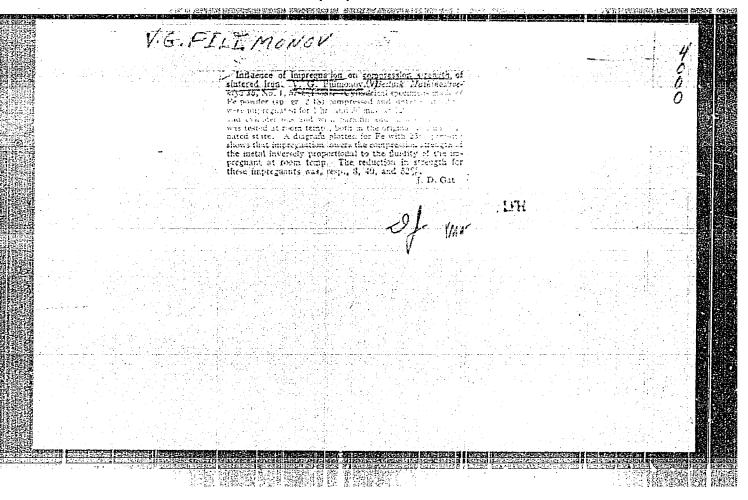




	Includes sketches of press parts.	USSR/Engineering (Contd)	Discusses basic construction of mechanical and hydraulic presses. Mechanical presses are easier to operate and are performing satisfactorily in production of small-size parts. Describes basic principles and operations of the mechanical press.	"Vest Mashinostroy" No 7	"Mochanization of the Process of Pressing Parts From Iron Fowder," V. G. Filimonov, Ingr, 4 pp	USER/Engineering Machinery - Construction Metallurgy, Powder	
2/4 9T4 5		Jul 48	hanical presses rming ll-size and		sing onov,	By th	







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Fillmonev, V. G.

TITLE

AUTHOR:

Producing porous bimatal and other two-layer permet articles

PERIODICAL: Vestnik mashinostroyeniya, no. 2, 1960, 68 - 71

TEXT. The existing technology of making of timetal parts (e.g., bearing bushings) is slow because of several pressing operations and hand-operated tress molds, and the bond between layers is weak, for the layers are pressed separately, A new method consists in the use of a special mold filling device (Fig. 1) which is composed of a case casing (1), an internal cone (2), a centring crossplece (3) and a dividing cylinder (4). The crosspiece is fixed by brazing or welding in cuts of the cone (2), then together with the cone (2) in the case casing. The dividing cylinder (4) has four slots on the cottom side for setting on the crosspiece. The whole filling device is installed on the tray of a stationary press mold, in guides (6). Iwo different powders are filled into spaces inside and outside the dividing cyliner. A set of dividing cylinders enables different combinations of metal layer thicknesses to be attained. The different compets are filled into the die and pressed similtaneously, and the toni between the layers is as strong as in

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Producing perous bimetal and other, ...

single metal. The dividing cylinder diameter is found by known as well as the inner and outer diameters of the die, the thickness of one layer, and the minning capacity of the two metal powders. When their running capacity is not the same, the dividing cylinder diameter formula is

$$\mathcal{T}_{\mathbf{A}} \mathbf{1}_{\mathbf{A}} = \mathcal{T}_{\mathbf{b}} (\mathbf{A} + \mathbf{1}_{\mathbf{a}}), \tag{1}$$

from which it follows that

$$a = \frac{A}{1 + \frac{x}{2h}} \tag{2}$$

where \mathbb{T}_a is the running capacity of powder a in g/sec; \mathbb{T}_b - the same of the powder b; 1 - the space between the inner die diameter and the inner diameter of the dividing cylinder, in cm; A - the wall thickness of the pressing (or the die cavity width), in cm. For convenience 1 can be expressed in diameters. Then the mean diameter of the dividing cylinder for obtaining an inner layer with thickness h_a from the powder a must satisfy the relation

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Producing porous bimetal and other...

$$D_{4,a} = d_{BH} + \frac{2A}{1 + \frac{T_{A}}{T_{A}}}$$
 (3)

where D a is the mean diameter of the dividing cylinder in cm; d_{dH} - the inner diameter of the die cavity in cm. If $h_a \neq h_b$, when the internal powder a layer must be n times thinner than the outer b layer:

$$D_{LA} = A_{3\mu} + \frac{2A}{\frac{nT_A}{T_B}},$$

and if the powder r layer has to be n times thinner than the a powder layers

$$D_{\underline{A}\underline{a}} = d_{\underline{a}\underline{a}} + \frac{2\underline{A}}{nT_{\underline{a}}}$$
 (5)

A practical calculation example is included. The calculated diameter needs corrections (because of the shaking of the die on the working press, neterogeneity of

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"APPROVED FOR RELEASE: 06/13/2000

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3/122/60/000/002/014/018 A161/A130

Producing perous bimetal and other. ...

the powder, different curtace finish of the die, etc.). Simetal transmas have been manufactured using tide method, part of them with the inner dayer of copper and the outer from Iron, maked in 1,000% in generator gas. The layers could not be separated in 'esto. As it is difficult to ottain a firm iron layer with an inner bronze layer (Fecause of two different melbing points), the following process is recommended for tria case. 1) To press the himstal bushings so as to reach a porceity 5 - 7% higher than final wanted: 2) Fincer at cronze eintering point (800 - 900°C) for 2 hg 3) compress the bushings to final dimensions and porceity; 4) sinher again for 2 h at the same temperature. The resulting bond is not weaker than in bushings produced using the conventional "echnology and 1,200°C for sintering. The first pressing is to be performed in the described charging device, and the concentrical second pressing (after first sintering) in a special die, in the following way. The presintered bishing is to be placed between came; a top crossarm lowered to make a shell exert pressure on the cams that will press on a bushing; the bushing will be compressed and densened. When the crossarm descends further, the came stay immobile, and a top punch will reach the bushing and push it down together with the center core into a die cavity until it thrusts at a bottom punch. The ready bushing is ejected by the bottom punch from pressure exerted by a piston.

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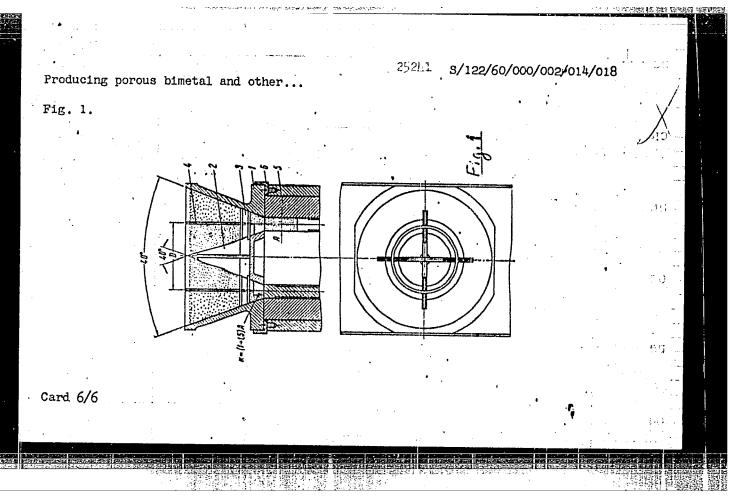
S/122/60/000/002/014/018 A161/A130

Producing porous bimetal and other ...

When the crossarm retracts, the cams are released and returned into initial position by leaf springs. The installing of bushings into the die and the ejection can

be automated. There are 4 figures and 2 Soviet-bloc references.

Card 5/6



RAKOVSKIY, V.S.; SAKLINSKIY, V.V.; FILIMONOV V.G., inzh., retsenzent;
MARTENS, S.L., insh., red.; GORDETEVA, L.P., tekhn. red.

[Powder metallurgy in the machinery industry] Poroshkovaia
metallurgia v mashinostroenii; spravochnik. 2 izd., ispr.
i dop. Moskva, Mashgiz, 1963, 101 p. (MIRA 16:8)

(Powder metallurgy—Handbooks, manuals, etc.)

CIA-RDP86-00513R000413030009-1 "APPROVED FOR RELEASE: 06/13/2000

ACCESSION NR: AP4042898

5/0119/64/000/007/0010/0012

AUTHOR: Kalatozishvili, N. I. (Candidate of technical sciences);

Filimonov, V. N. (Engineer)

TITLE: Remote discrete liquid-level gauge

SOURCE: Priborostroyeniye, no. 7, 1964, 10-12

TOPIC TAGS: level gauge, liquid level gauge, remote level gauge, discrete level

ABSTRACT: A remote measuring device consists of a photoconverter sensor and a decoder receiver with digit indication. The continuous variation in the liquid level is converted into a binary-decimal code which is transmitted over a 2-wire circuit. A self-explanatory sketch of the sending end is given in Enclosure 1. A laboratory model of the device "was built and tested." Orig. art. has: 2 figures.

ASSOCIATION: Institut elektroniki, avtomatiki i telemekhaniki AN GruzSSR (Institute of Electronics, Automation and Telemechanics, AN GruzSSR) ENCL: 01

SUBMITTED: 00

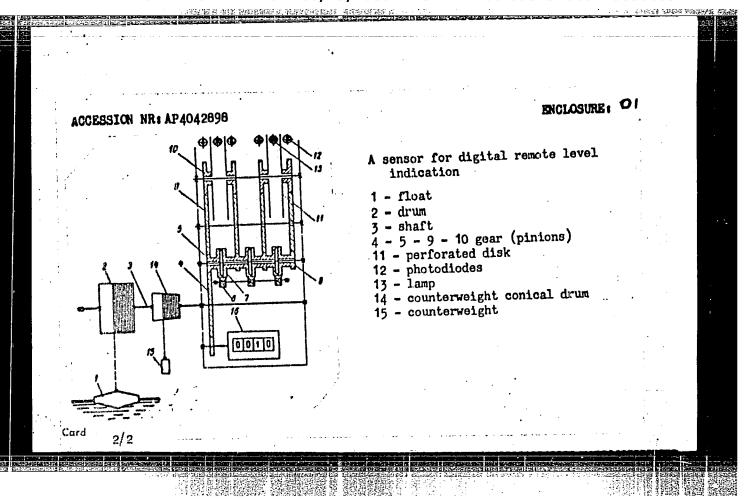
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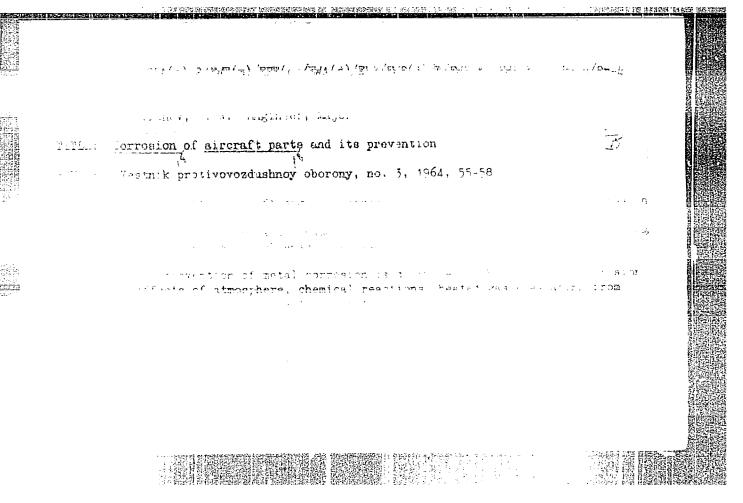
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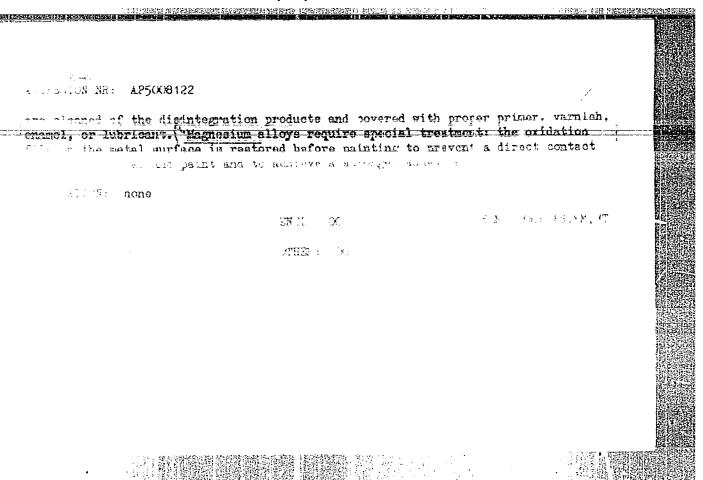
OTHER: 000

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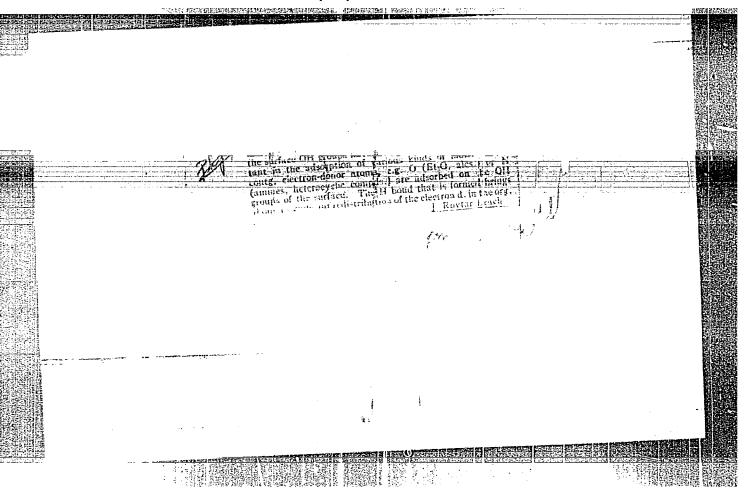




FILIMONDY, V. N. --

FILIMONOV, V. N. -- "Investigation of the Interaction of Molecules with Electron-Acceptor Catalytic Agents Using the Method of Infra-Red absorption Spectra." Leningrad Order of Lonin State U imeni A. A. Zhdanov. Leningrad, 1955. (Dissertation for the Degree of Candidate in Physicomathematical Sciences)

SO: Knizhnaya Letopis', No 1, 1956, pp 102-122, 124



Filimonov, VN

USSR/Optics - Spectroscopy

K-6

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 13043

Author

Filimonov, V.N., Terenin, A.N.

Inst

: Leningrad State University, USSR.

Title

: Infrared Spectra of Absorption of Complexes of Several Organic Compounds with Aluminum Bromide and Tin Tetrachlo-

ride.

Orig Pub

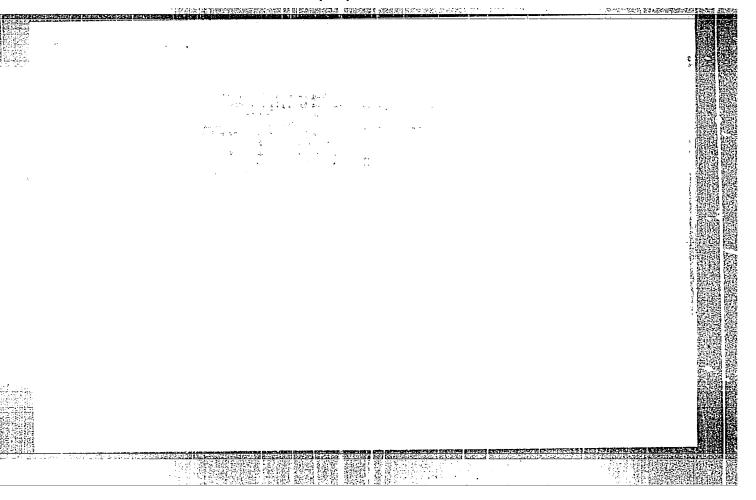
Dokl. AN SSSR, 1956, 109, No 4, 799-801

Abstract

An investigation was made of the variation of the infrared spectra of absorption of certain organic compounds, occurring when AlBr3 and SnClh are dissolved in them. The frequency of the valent vibration of C = O acetone is reduced by 165 cm-1. The structure of the overtone band C -- H of diethyl-ether experiences changes analogous to the changes in it upon interaction of the ether

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FILAIMENEY, b No

51-5-6/11

AUTHORS: Fillimonov, V.N., Bystrov, D.S. and Terenin, A.N.

TITLE: Infra-red Spectra of Molecular Compounds with Metal Halides (Infrakrasnye spektry molekulyarnykh soyedineniy s galogenidami metallov)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr 5, pp.480-493 (USSR).

ABSTRACT: Infra-red absorption spectra of molecular compounds, NO, acetonitryl, pyridine, cyclohexane, acetone and methanol with AlBr3, AlCl3 and SnCl4 were investigated in the region 8000 to 700 cm⁻¹. The work was carried out on an infra-red spectrometer of type NKC-ll with prisms of LiF and NaCl and an autocollimating spectral instrument of high dispersion using glass prisms. Pronounced changes in the spectra of molecules to which metallic halogens (AlBr3, AlCl3 and SnCl4) become attached, show that a donor-acceptor bond is established between them. The frequency changes are quite pronounced and form a direct evidence supporting the above hypothesis.

Detailed absorption curves of the substances and frequency

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51-5-6/11

Infra-red Spectra of Molecular Compounds with Metal Halides.

tables are given. There are 10 figures, 8 tables and 29 references, many of which are Slavic.

ASSOCIATION: Scientific and Research Institute of Physics of the Leningrad State University (Nauchno-issledovatel skiy fizicheskiy institut, Leningradskogo gosudarstvennogo universiteta)

SUBMITTED: May 17, 1957.

AVAILABLE: Library of Congress.

Card 2/2

FILIMONOV, V., and TERENIN, A., Leningrad.

"Hydrogen Bond Between Adsorbed Molecules and Structural Oh-Groups At The Surface of Solids," report submitted at IUPAF Symposium on Nature of Hydrogen Bonding, Ljubljana, Yugoslavakis, 30 July - 3 Aug 57.

also in Vestnik AN SSSR, 1957, No. 11, pp.137-139, "An Intl. Dymposium on the Hydrogen Bond in Ljubljana," by Vol'kenshteyn, M.V.

Trans. Encl. B-9,096,177, 20 Jan 58.

FIMMONOV, V.N.

51-- 4*-3*-7/30

AUTHORS: Royev, L.M., Filimonov, V.N. and Terenin, A.N.

TITIE: Changes in the Infrared Spectrum of Molecules on Interaction with Adsorption Centres of an Aluminium Silicate

Catalyzer. (Izmeneniya infrakrasnogo spektra molekul

pri ikh vzaimedeystvii s tsentrami adsorbtsii

alyumosilikatnogo katalizatora.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol. IV, Nr. 3,

pp.328-334 (USSR)

ABSTRACT: The present paper forms part of a cycle of investigations

on application of the infrared spectra to the study of adsorption and catalysis which was started in 1940 (Ref.1). The present paper reports measurements of the infrared absorption spectra of ammonia and acetonitrile adsorbed on an aluminium silicate catalyser and on silica gel. The aluminium silicate catalyser contained about 10% of Al₂O₃ and had a specific surface area of 400 m²/g.

The specific surface area for silica gel was about 500

m²/g. Both adsorbents were in the form of powders placed between two plates of LiF or NaCl. Thickness of an

Card 1/4 adsorbent layer was about 10 mg/cm2. In some tests

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Changes in the Infrared Spectrum of Molecules on Interaction with Adsorption Centres of an Aluminium Silicate Catalyzer.

porous glass plates. 0.5 mm thick, were used. These glass plates had a specific surface area of 100 m/g. Before measurements the adsorbents were heated for 2 hours in air at 600°C and for 1 1/2 hours in 10-4 mm Hg vacuum at 450°C. Adsorption of ammonia and acetonitrile vapours and recording of spectra were carried out using a vacuum cell described in Ref.9. Infrared spectrometers IKS-2 and IKS-11 with LiF and NaCl prisms were used. Fig.1 gives the absorption band of OH groups on the surfaces of the aluminium silicate catalyzer (curve 1) and silica gel (2) after vacuum treatment and before adsorption of the vapours studied (both adsorbents were immersed in CCl₄). Fig.2 gives the absorption spectra of the aluminium silicate catalyzer (curve 1) and silica gel (2) with ammonia adsorbed on them and after immersion in CCl4. Fig. 3 gives the change in the absorption spectra of the aluminium silicate catalyzer on adsorption of acetonitrile; curve 1 represents the vacuum-dried adsorbent, curve 2 shows the adsorbent with acetonitrile, curve 3 shows the same adsorbent as in

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Changes in the Infrared Spectrum of Molecules on Interaction with Adsorption Centres of an Aluminium Silicate Catalyzer.

Fig.4 gives curve 2 after evacuation of acetonitrile. the change in the absorption spectra of porous glass on adsorption of acetonitrile; curve 1 represents the adsorbent by itself, curve 2 represents the adsorbent with acetonitrile, curve 3 represents the adsorbent of curve 2 after evacuation of acetonitrile. The results obtained show a lowering of the frequencies of the valence vibrations of N-H of ammonia and an increase of the frequency of Count of acetonitrile on adsorption. These changes in frequencies are greater in the case of adsorption on the aluminium silicate catalyzer than on adsorption on silica gel. Change of the frequencies of armonia and acetonitrile on adsorption on the aluminium silicate catalyzer are similar in their sign to the changes of frequencies of the same molecules when the latter are attached to a non-protonic cataly er (such Adsorption of molecules on carefully $AlCl_3$). as vacuum-treated samples of the aluminium silicate cataly mer is not accompanied by attachment of the catalyzer protons to the adsorbed molecules. authors thank A.N. Sidorev for help in this work.

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51--4-3-7/30

Changes in the Infrared Spectrum of Molecules in Interaction with Adsorption Centres of an Alumnaum Silicate Catalyzer.

There are 4 figures, 1 table and 18 references, of which 9 are Soviet, 5 American, 1 German, 1 French, 1 English and one translation of a Western work into Russian.

ASSOCIATION: Physic Research Institute, Leningrad State University. (Nauchno-issledovatel'skiy fizicheskiy institut

Leningradskogo gosudarstvennogo universiteta.)

SUBMITTED: May 17, 1957.

1. Infrared spectra-Applications 2. Armonia-Absorption -Spectrographic analysis 3. Acetenitrile--Absorptica--Spectrographic analysis 4. Aluminum silicate catelyst-Adsorptive properties 5. Silica gel-Adsorptive properties

Card 4/4

Filimonov, V.N. AUTHOR:

SOV/51-5-6-15/19

TITLE:

Electronic Absorption Bands of ZnO and TiO2 in the Infrared Region (Elektronnyye polosy pogloshcheniya ZnO i TiO2 v infrakrasnoy

oblasti spektra)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 6, pp 709-711 (USSR)

A.BS TRACT:

Many semiconductors absorb in the infrared region. This absorption is due to electron transitions between energy levels in the conduction band and due to transitions from local levels into the conduction band or from a filled band to local levels. Such absorption is not observed in ZnO under normal conditions. The author shows that infrared absorption may be observed in ZnC when adsorted oxygen is removed from the sample surface. Experiments were made on 2n0 produced by decomposition of Zn oxalate (Ref 2). ZnO powder was compressed between 2 NaCl plates; the sample thickness was 5-10 mg/cm2. Samples were placed in a cell which could be evacuated down to 10-3mm Hg. An IKS-14 infrared spectrometer with LiF and NaCl prisms was used. It was found that evacuation of air at room temperature did not affect transmission by 2n0 in the infrared region. Irradiation with ultraviolet light from a mercury lamp SVDSh-250-3 was found to produce infrared

()ard 1/3

SOV/51-5-6-16/19 Electronic Absorption Bands of ZnO and TiO2 in the Infrared Region

absorption in ZnO (Fig 1, where the ordinate represent the ratio of transmissions before and after ultraviolet irradiation). This absorption remains when ultraviolet irradiation ceases. When air or oxygen is let into the cell the sample recovers its former transmission. The observed effects are ascribed to the presence of adsorbed O_2 on ZnO under the usual conditions and removal of O2 by ultraviolet radiation. Similar effects are observed on adsorption of NO and nitromethane (CH3NO2) on ZnO, but water vapour does not affect the infrared absorption of ZnO. This is shown in Fig 2, where the effects of air, nitromethane and D20 vapour are represented by curves a, b and v respectively. The infrared absorption band in ZnO is due to increase in the number of conduction electrons on removal of O2 and other substances and due to transitions in the conduction band. Infrared absorption, which disappears in the presence of air, was also observed on heating or illumination in the region of intrinsic The absorption absorption of fine-grained samples of TiO2 in vacuo.

Carl 2/3

SOV/51-5-6-16/19 Blectronic Absorption Bands of ZnO and TiO2 in the Infrared Region

band in this case has the form shown by the lower curve in Fig 1 and it may be due to superposition of absorption due to transition of electrons from local levels. The author thanks A.N. Terenin for his interest. There are 2 figures and 6 references, 4 of which are Soviet and 2 translations.

SUBMITTED: June 21, 1958

(;ard 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

AUTHORS:

Terenin, A. N., Filimonov, V. N.,

SOV/48-22-9-23/40

Bystrov, D. S.

TITLE:

Infrared Absorption Spectra of Molecular Compounds of Metal Halides (Infrakrasnyye spektry pogloshcheniya molekulyar-

to and the state of the state

nykh soyedineniy s galogenidami metallov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958,

Vol 22 , Nr 9, pp 1100 - 1102 (USSR)

ABSTRACT:

This is an investigation of the infrared absorption spectra of the molecular compounds of NO, acetonitrile, pyridine, acetaldehyde, acetone, chloro acetyl ethyl acetate, diethyl ether, methanol and cyclohexane with AlBrz, AlClz,

 SnCl_A and some other metal halides. The majority of

these molecular compounds was investigated in solid state.

They were produced by the sorption of the vapors of organic compounds and of the gaseous NO which was sublimated through the halide layer. A description of the experimental method and part of the results were

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published already in reference 1. A somewhat more pronounced

Infrared Absorption Spectra of Molecular Compounds of Metal Halides

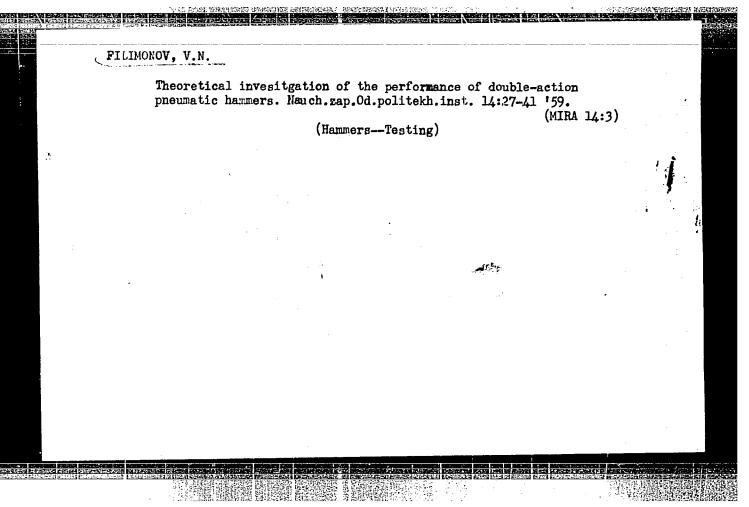
SOV/48-22-9-23/40

shift of the frequency indicates that these metal halides possess better electron acceptor properties than protonic acids. The modifications in the infrared spectrum clearly indicate that the addition of metal halides to organic molecules can lead to the same modifications in these molecules as can the addition of a proton. This means that the halides of Al, Sn, Ti and Fe behave as strong acids even in the absence of the respective hydrogen halides. There are 7 references, 1 of which is Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos.universiteta im.A.A.Zhdanova (Scientific Research Institute of Physics of the Leningrad State University imeni A.A.Zhdanov)

Card 2/2

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FILIMONOV, V.N.; BYSTROV, D.S.

Spectral manifestations of the action of some aprotic catalysts.
Probl. kin. i kat. 10:291 '60. (MIRA 14:5)

1. Fizicheskiy fakul tet Leningradskogo gosudarstvennogo universiteta.
(Catalysts—Spectra) (Halides)

24.7700 AUTHOR:

V.N. Filimonov.

S/051/60/008/02/027/036 E201/E391

TITLE:

Changes in the Infrared Absorption of Certain Semiconducting

Adsorbates on Illumination with Ultraviolet Light

PERIODICAL:

Optika i spektroskopiya, 1960, Vol 8, Nr 2,

pp 270 - 272 (USSR)

ABSTRACT: In a preceding note (Ref 1) the author reported that illumination of ZnO and TiO2 with ultraviolet light

produces absorption in the infrared region and this absorption decays slowly in vacuo when the ultraviolet illumination ceases; the decay occurs much faster in air or oxygen. This infrared absorption is due to an increase in the concentration of free electrons on photodesorption of oxygen and is related to transitions of electrons from donor levels to the conduction band or transitions within that band. The present note describes studies of infrared absorption produced by ultraviolet illumination of WO3 and SnO2, whose electrical conductivity

like the electrical conductivity of ZnO and TiO2, rose

Card1/4

S/051/60/008/02/027/036

Changes in the Infrared Absorption of Certain Semiconducting Adsorbates on Illumination with Ultraviolet Light

sharply on illumination with ultraviolet light in vacuo (Ref 6). Wo₃ was prepared by decomposition of H₂Wo₄ at 500 °C; Wo₃ powder was deposited from alcohol suspension onto an NaCl plate. Samples of SnO₂ were prepared by heating to 500 °C a mixture of SnCl₄ with ethanol deposited on an NaCl plate. Sample thickness was 2-3 mg/cm². An infrared spectrometer IKS-14 with NaCl, LiF and F-1 prisms was employed. Figure 1 shows the change in transmission of Wo₃ (at 5 000 cm⁻¹) and SnO₂ (1 300 cm⁻¹) samples on illumination with light from a mercury lamp SVD-250 passed through glass and water filters. Figure 1 shows that ultraviolet irradiation of samples in vacuo produces infrared absorption which decays slowly when this irradiation ceases. If air or oxygen is let into the vacuum chamber the transmission of Wo₃ quickly recovers its former value.

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S/051/60/008/02/027/036

Changes in the Infrared Absorption of Certain Semiconducting Adsorbates on Illumination with Ultraviolet Light

In the case of SnO_2 the action of air or oxygen produces only a partial recovery of the original transmission. infrared absorption spectra produced by ultraviolet illumination of WO_3 , SnO_2 and TiO_2 (Ref 1) in vacuo are shown in Figure 2 (the ordinate axis represents the ratio of the transmissions after and before illumination). The absorption of WO_{π} has a wide band in the region 0.3 - 0.9 eV. The absorption maximum of SnO2 lies approximately at In the case of ${\rm TiO}_2$ both uniform absorption, extending from 3 000 cm 1 to higher frequencies and a gradual rise of absorption at low frequencies were observed. Infrared absorption in WO_3 and SnO_2 is due to transitions of electrons from donor levels to the conduction band. author points out that powder samples scattered light strongly and, therefore, only the change in infrared absorption produced by ultraviolet illumination was measured,

Card3/4

\$/051/60/008/02/027/036

Changes in the Infrared Absorption of Certain Semiconducting Adsorbates on Illumination with Ultraviolet Light

i.e. the results obtained do not exclude the possibility of infrared absorption by Zn0, TiO_2 , WO_3 and SnO_2 before

illumination with ultraviolet light. Acknowledgment is

made to A.N. Terenin for his advice.

There are 2 figures and 8 references, 4 of which are Soviet, 2 Soviet and others, 1 English and 1 German.

SUBMITTED: July 8, 1959

Card 4/4

\$/051/60/009/004/007/034 E201/E191

AUTHORS:

Bystrov, D.S., Sumarokova, T.N., and Filimonov, V.N.

TITLE:

Infrared Absorption Spectra of Urea and Thiourea

Complexes with Tin Chloride and Bromide

PERIODICAL: Optika i spektroskopiya, 1960, Vol 9, No 4, pp 460-466 TEXT: The authors studied the infrared absorption spectra of urea $(NH_2)_2CO$, its three complexes, $2(NH_2)_2CO$. SnCl4, (NH2)2CO.TiCl4 and 2(NH2)2CO.SnBr4, of thiourea (NH2)2CS, and its two complexes, 2(NH2)2CS.SnCl4 and 2(NH2)2CS.SnBr4. The purpose of the investigation was to find where metal halides were attached to urea and thiourea molecules and to find the effect of such attachment on the attached molecules. The infrared spectra were recorded using a technique described earlier (Ref 5). Thin layers of complexes were prepared by sublimation in vacuum (Refs 1, 2) or by interaction of sublimated layers of urea or thiourea with appropriate vapours (the latter method was used only for SnCl4).

Card 1/2

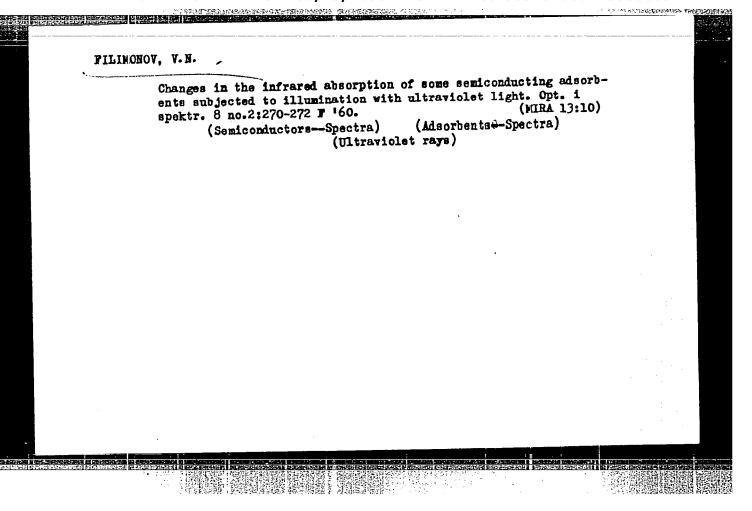
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Infrared Absorption Spectra of Urea and Thiourea Complexes with Tin Chloride and Bromide

The spectra were found to be independent of the method of preparation; they were recorded with an infrared spectrometer NKC-14 (IKS-14). The results for urea and its complexes are given in Tables 1 and 2 and Figs 1 and 2. The results for thiourea and its complexes are listed in Table 3 and shown in Fig 3. It was found that in urea complexes SnCl₄ and TiCl₄ were attached to oxygen, while SnBr₄ was attached to nitrogen. In thiourea complexes SnCl₄ and SnBr₄ were attached to sulphur. Acknowledgements are made to A.N. Terenin who directed this work. There are 3 figures, 3 tables and 17 references: 4 Soviet, 5 English, 1 French, 1 Swiss, 2 translations into Russian and 4 from international journals.

SUBMITTED: January 12, 1960

Card 2/2



RYSTROV, D.S.; SUMAROKOVA, T.N.; FILIMONOV, V.N.

Infrared absorption spectra of complexes of urea and thiourea with stannic chloride and bromide. Opt.1 spektr. 9 no.4:46-466 0 '60. (MIRA 13:11)

(Tin compounds--Spectra)

IMEDADZE, V.V.; SAAKYAN, E.A.; CHAKHIROV, N.S.; FILIMONOV, V.N.

Correlation recorder using transistor and ferrite cells. Trudy
Inst. elek., avtom. i telem. AN Gruz. SSR 3:35-46 '62. (MIRA 15:5)
(Information theory)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

8/020/62/147/006/028/034 B144/B186

15,2100

AUTHORS:

Alekseyev, A. V., Filimonov, V. N., Terenin, A. N.,

Academician

TITLE

Infra-red spectra of nitrous oxide adsorbed on synthetic

zeolites

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1392

1395

TEXT: The adsorption of NO on synthetic A and X type zeolites, in Na and Ca forms with pore diameters of 4 and 5 % and on natural zeolites such as natrolite and desmine, was studied by IR spectroscopy. The presence of adsorption centers and the formation of intermediate products needs clearing up. The spectra were recorded in the 2400 - 1200 cm⁻¹ range on powdered zeolites placed between fluorite plates with intermediate aluminum foils, and subjected to a vacuum pretreatment of 4 - 8 hrs at 400°C. The final gas pressure of 40 mm Hg excluded the recording of gaseous NO which has a band at 1876 cm⁻¹. A comparison between the spectra of the pure zeolites and those resulting after NO adsorption showed bands shifted by more than 300 cm⁻¹ to the right and Card 1/3

Infra-red spectra of nitrous oxide .

S/020/62/147/006/028/034 B144/B186

to the left of the NO band, revealing the formation of other nitrogen oxides. This was verified by recording the IR spectra of N₂O and NO₂ adsorbed on a CaA zeolite. The bands at 2250, 1300 and all low-frequency bands belong undoubtedly to N₂O forming by the reaction: $2NO_{ads} \rightarrow N_{2}O_{ads} + O_{ads} \cdot Unlike the 1616 and 1322 cm^{-1} bands of gaseous NO₂, the IR spectrum of the adsorbed NO₂ shows bands at 1350 - 1490 cm⁻¹ due to the formation of the NO₃ group, and bands at 1940 and 2110 cm⁻¹ resulting from a decomposition of the NO₂ molecule with formation of chemisorbed NO. This agrees with published data on the ionic form NO⁺(2100 - 2400 cm⁻¹) and the coordination bond of NO with electrophilic centers (1940 cm⁻¹). Thus the presence of electrophilic and electronacceptor centers can be assumed on the surface of these zeolites. There are 3 figures.$

Card 2/3

Infra-red spectra of nitrous oxide ... S/020/62/147/006/028/034

ASSOCIATION: Nauchno-issledovatel'skiy fizioheskiy institut Leningradskogo gouddrutvennogo universitota im. A. A. Zhdanova
(Sciontific Research Physics Institute of the Leningrad
State University imeni A. A. Zhdanov)

SUBMITTED: July 30, 1962

FILIMONOV, V.N.

Reaction of oxygen with NiO, Fe2O3 and Cr2O3 studied from their absorption spectra in the infrared. Kin. i kat. 4 no.3:367-372 My-Ja 163. (MIRA 16:7)

l. Nauchno-issledovatel'skiy fizicheskiy institut, Leningradskiy universitet.

(Metallic oxides—Absorption spectra)
(Oxygen)

FILIMONOV, V.N.

Photocatalytic exidation of gaseous isopropanol on ZnO and TiO₂ . Dokl. AN SSSR 154 no.4:922-925 F '64. (MIRA 17:3)

1. Nauchno-issledovatel skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta im. A.A. Zhdanova. Predstavleno akademikom A.N. Tereninym.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

BORESKOV, G.K.; SHCHEKOCHIKHIN, Yu.M.; MAKAROV, A.D.; FILIMONGV, V.N.

Use of infrared absorption spectra in studying the structure of surface compounds formed during adsorption of ethanol on Y-oxide of aluminum. Dokl. AN SSSR 156 no. 4:901-904 Je '64. (MIRA 17:6)

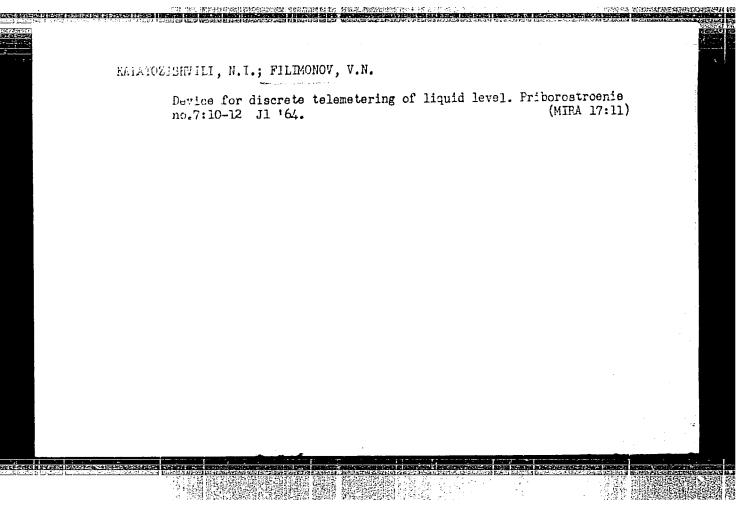
1. Institut kataliza Sibirskogo otdeleniya AN SSSR i Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. 2. Ghlen-korrespondent AN SSSR (for Boreskov).

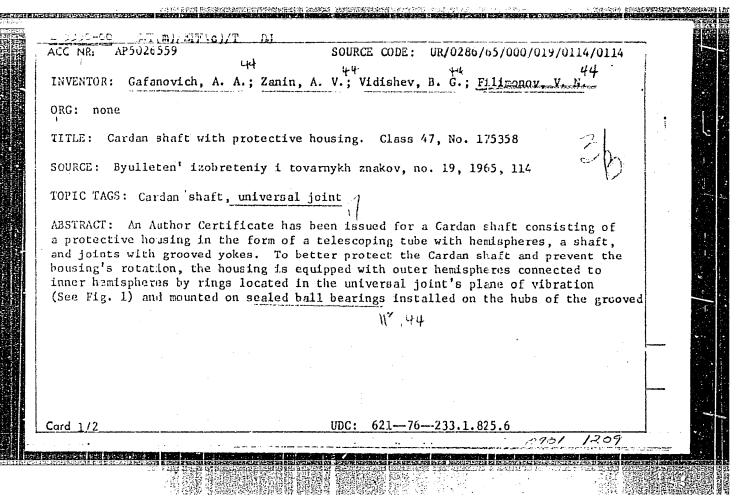
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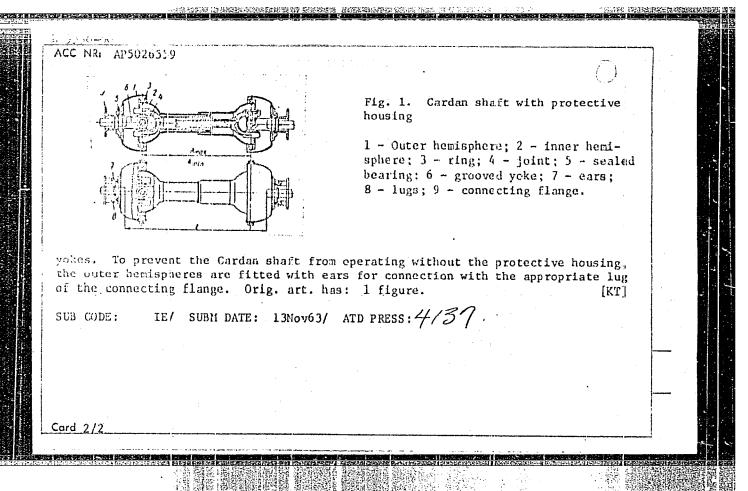
The bocatalytic exidation of organic compounds on Ent. TiC., Al. 03, and SiO. as determined from the shearption spectra of adsorbed molecules in the Antrared. Bokl. AN SSSR 158 no.6:1008-1011 C 164.

(MRA 17:12)

1. Nauchno.issledovatelishir fizicheskiy institut Loningraiskogo gosudaratvernego universitata in. A.A. Endanova. Fredaravleno akademikon A.N. fereninya.

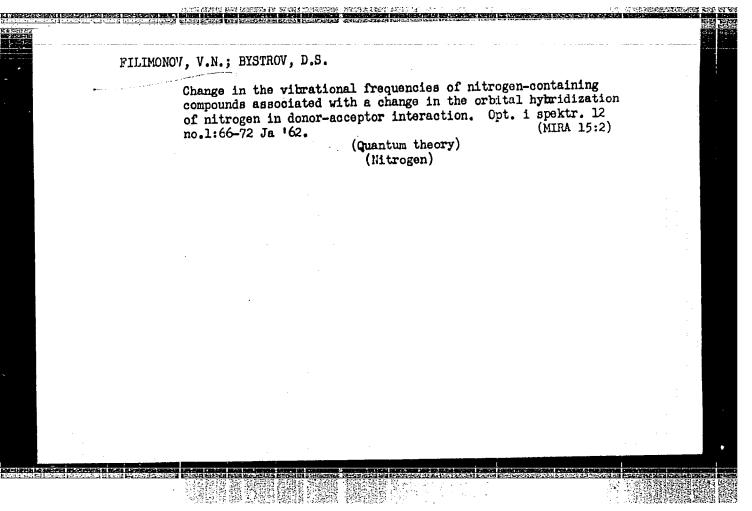


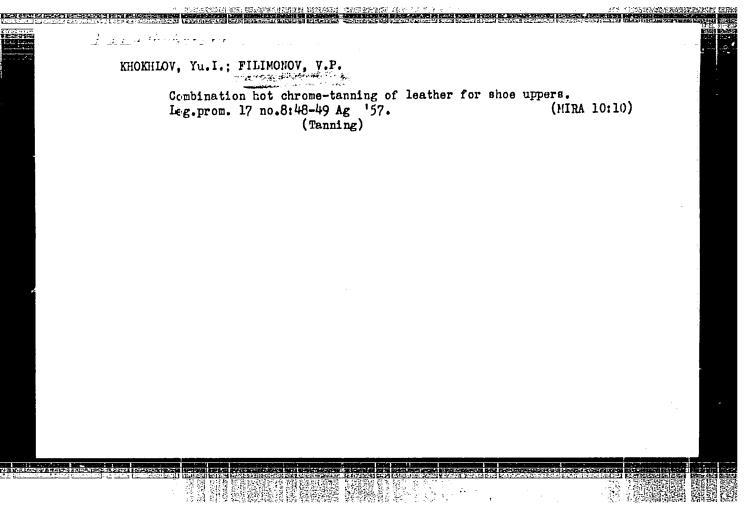




VERSHININ, Ye.A.; FILIMONOV, V.N., KISLYAKOV, L.D.; CHVANOV, P.A.;
BELYAYEV, M.A.; KORCEKOV, V.P.

Efficient flotation flow chart for collective concentrates at the Sibny plant. TSvet. met. 38 no.4:14-17 Ap '65. (MIRA 18:5)





PETRUSENKO, V.G.; SHOSTYA, I.V.; OKUNEVA, Z.S.; PRIBITKOVA, Yu.V.;

FILIMONOV, V.P.; POLIYEKTOVA, A.M.; CHERNISHOVA, N.P.; ISAYCHENKO,

- M.M., red.; LINKOV, G., tekhn.red.

[Reconomy of Cherkassy Province; statistical collection] Narodne hospodars'vo Cherkas'koi oblasti; statystychnyi zbirnyk. Cherkasy, 1957. 126 p. (MIRA 12:11)

1. Cherkassy (Province) Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo Upravleniya Cherkasskoy oblasti (for Isaychenko). (Cherkassy Province--Statistics)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

AUTHORS: Filimonov, V. P., Nikol'skiy, K. N. 50-58-4-4/26

TITLE: On the Scale of Fire Susceptibility and the Forecast of Fire

Danger in Forests (O shkale gorimosti i prognozakh

pozharoopasnosti v lesu)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 4, pr 38-39 (USSR)

ABSTRACT: For the determination of the probability of the rising of forest fires is used, as is known, such a scale. It is based

upon a complex index of the susceptibility for fire, which was worked out by professor Nesterov. This index is a product

of the air temperature at 1300 hours multiplied by the saturation deficit. The sum of such indices for a number of

days, at which no rain has brought more than 3 mm precipitation,

characterize the degree of fire susceptibility, which according to the value of this sum belongs to one of the

fire susceptibility classes. The computation of this

coefficient together with the specialized fire susceptibility forecast is a big step forward in the forest fire prevention, though this method also has some deficiencies. Above all there

is no good correlation between the repetition frequency of

Card 1/3 the forest fires and the corresponding fire susceptibility

On the Scale of Fire Susceptibility and the Forecast of Fire 50-58-4-14/26 Danger in Forests

classes, which are determined by means of the mentioned method. Season particularities of the rising of fires are not considered, especially not in spring, when they arise at a low value of the fire susceptibility index. The wind velocity, which plays a role in the fire expansion, is not considered. The fixed criterion of the removal of the fire danger - the precipitation quantity of 3 mm, is not brought into connection with a precedent period of aridity. Besides precipitation quantities above 3 mm are not considered. B. L. Dandre (ref. 1) suggests a fire susceptibility scale and fire danger classes of a somewhat different types. Instead of the product here the sum of the air temperature and the saturation deficit is used. The class-scale here is based upon the season principle. Separated for spring and summer. Thereby the forest fire danger is to increase with a considerably lower fire susceptibility index. A special coefficient is introduced, by which the fallen precipitations (in mm) are multiplied. Also a so called negative fire susceptibility was introduced, which characterizes the moisture degree of the litter of leaves. A scale of the extinguishing of the negative fire susceptibility is worked

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On the Scale of Fire Susceptibility and the Forecast of Fire 50-58-4-14/26 Danger in Forests

out. It indicates the day on which, after the rising of the negative suseptibility, a fire can rise. Corrections for the wind velocity are introduced. Therefore the scale by Dandre comes much closer to the conditions, which really prevail in forests. By several examples of application in the woods of the Tuvinskiy autonomous district the author could convince himself of the advantages of the method by Dandre. There are 1 table and 1 reference, which is Soviet.

AVAILABLE:

Library of Congress

1. Forest fires - Statistical analysis

Card 3/3

IYUTTSAU, Aleksey Grigor'yevich; MER, N.I.; MERRO, Ye.M.; RYBIN, N.G.; ROZENVASSER, M.A.; SOLOV'YEV, S.N.; FILIMONOV, V.P.; SHAROYKO, V.V.; MEREZHKO, V.G., retsenzent; USENKO, L.A., tekhn. red.

[On the road of great initiative] Po puti velikogo pochina.
Moskva, Transzheldorizdat, 1961. 75 p. (MIRA 15:2)

1. Zamestitel' nachal'nika Glavnogo upravleniya lokomotivnogo khozyaystva Ministerstva putey soobshcheniya (for Merezhko).

(Railroads—Employees—Labor productivity)

FILIMONOV, V.P., insh.; ROZENVASSER, M.A.

A "popular university" in the repair shop of Moskva-Sortirovochnaia. Elek. i tepl. tiaga 6 no.ll:5-6 N '62. (MIRA 16:1)

1. Chlen soveta Narodnogo universiteta v depo Moskva-Sortirovochnaya (for Filimonov). 2. Otvetstvennyy sekretar' gazety "Pervyy subbothik" (for Rozenvasser).

(Railroads--Employees) (Railroads--Repair shops)

GITEL'ZON, I.I.; BAKLANOV, O.G.; FILIMONOV, V.S.; ARTEMKIN, A.S.; SHATOKHIN, V.F.

Bioluminescence as a hydrooptic and biological factor in a sea. Trudy MOIP. Otd. biol. 21:147-155 '65. (MIRA 18:6)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

。台灣的自然經濟。看到阿黎斯。 多起的音点

LIKHORADOV, A.P.; ZHIGULIN, V.I.; ZHEMBUS, M.D.; RUDAKOV, V.F.; KOTOV, K.I.;
ZHAK, A.M.; TSYMBALYUK, V.Yu.; FILIMONOV, V.V.

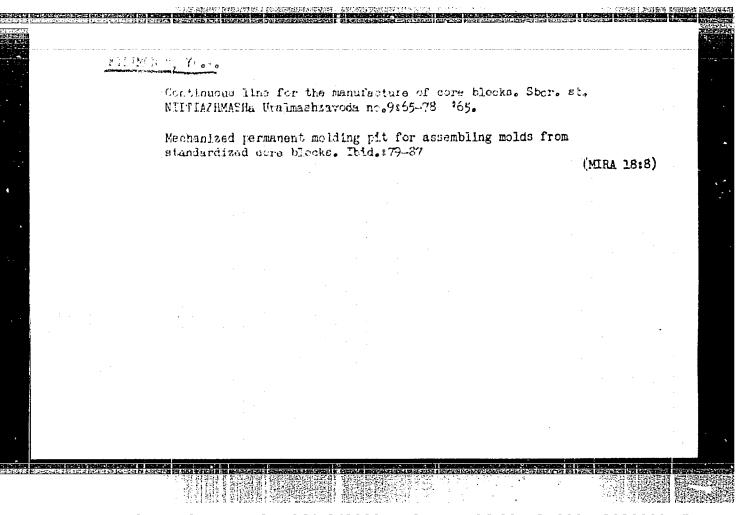
Service of the lining and cooling equipment of a blast furnace in the smelting of ferromanganese. Metallurg 10 no.10:12-14,
0 '65. (NIRA 18:10)

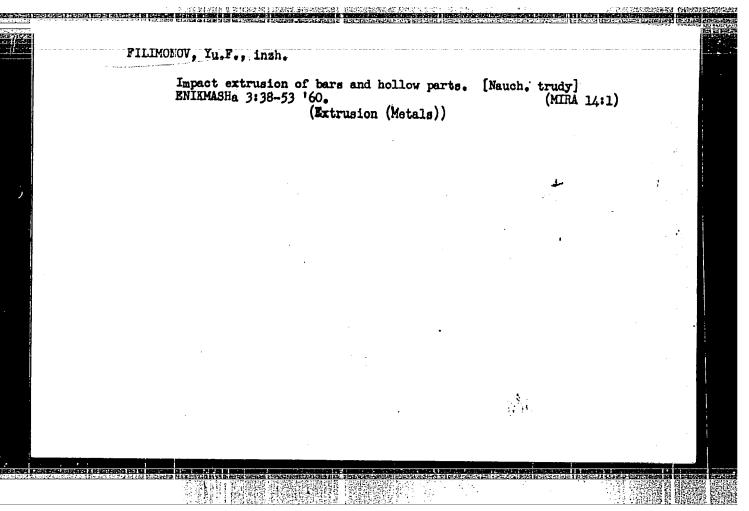
1. Zavod im. Petrovskogo.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030009-1"

VAL'SHTEYN, G.I.; KLEYMENOV, V.P.; FILIMCNOV, Ya.G.

Investigating efficient parameters of the rod bolting of stopes in the Dzhezkazgan Mine. Nauch. trudy KNIUI no.14:291-298 '64. (MIRA 18:4)





S/182/60/000/012/001/010 A161/A030

AUTHOR:

Filimonov. Yu.F.

TITLE:

Experience With Cold Extrusion of Steel Parts

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No.12, pp. 1-5

TEXT: Cold extrusion of automobile and tractor parts has been studied in laboratory experiments, and the process is coming into use at the Minskiy traktornyy zavod (Minsk Tractor Plant) and at Kuybyshevskiy zavod avtotraktornogo elektrooborudovaniya (Kuybyshev Automobile and Tractor Electric Equipment Plant). Six cold-extruded steel parts are illustrated (Fig.1) and dies used for them shown in detailed drawings (Fig. 2). The adapter, nipple, spring disc and pinion (Fig.1, a, b, c, and d) are produced in one single operation, the regulator disc and the pusher (e and f) in two operations. The bottom die design with outer casings has proven successful dies did not need to be replaced after extrusion of 5,000 adapters and 7,500 spring discs from "20" steel. Allowances used for single-casing bottom dies (Fig.2, a, b, c) were 0.3 - 0.4 mm (at 60 - 70 mm joint diam-

Card 1/5

Experience With Cold Extrusion of Steel Parts

S/182/60/000/012/001/010 A161/A030

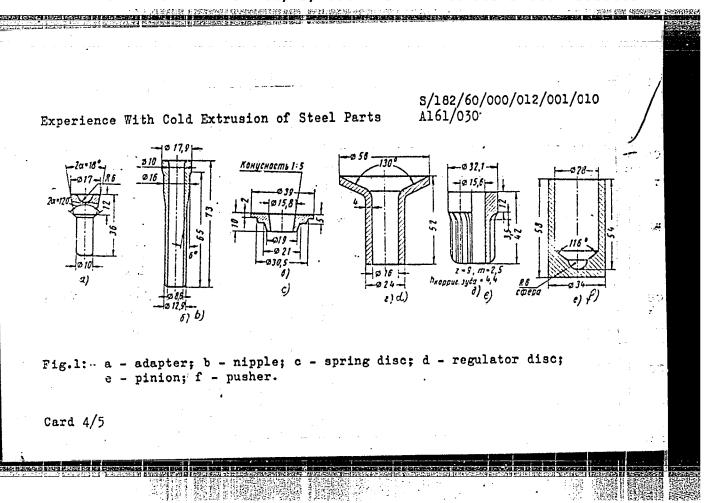
eter and 120 - 150 mm outer diameter), and for multicasing dies 0.2 - 0.3, 0.5 - 0.7, and 0.8 - 1.0 mm from the outer casing to the inner. The work portions of the dies were made of X1241 (Kh12F1) steel and hardened to HRC 58-60. The single-casing die casings of 40% (40Kh) or "45" steel were hardened to HRC 40-42 and heated to 300°C for setting on the work parts; the casings for multicasing dies were of different steel and quenched to hardness decreasing from the outer to the inner casing, provided with 1.50 taper and pressed on cold. The work part of the pinion die (Fig.2,) was made by slotting and calibrated with a master punch. The spring disc and the pusher could not be extruded from all steel grades tried, as the punch broke on some. The effect of the gauging belt height (h) (3, 8, 15 and 25 mm) on the work pressure was significant at a low-speed in the test machine (increasing "h" height raised 20-30% the extrusion effort), but in the "K682" crank press making 90 strokes a minute it was practically negligible, but it affected the accuracy of pin type parts (e.g., the adapter). In this case the "h" must equal the bed die diameter; the accuracy of tubular parts (nipple) also rose with increased "h" belt height. In reverse extrusion of cups on a $\Pi457$ (P457) press with 3 mm/sec speed it had no effect and could be in the range from 0.1 to 0.3 of D.

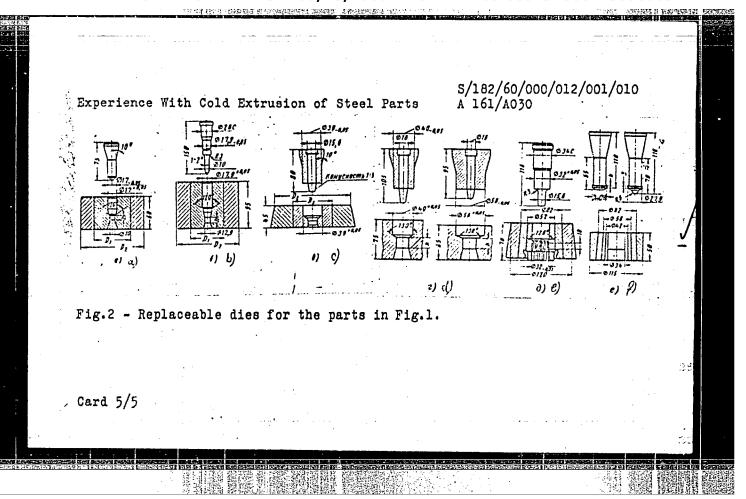
Card 2/5

S/182/60/000/012/001/010
Experience With Cold Extrusion of Steel Parts Al61/030

It is recommended to calculate the press effort using the formulae (not included in the article) of works (Ref.1, 4 and 5) (1 -V.Ye.Favorskiy; 4 - S.I.Gubkin; 5 - G.P.Bol'shakov). S.I.Gubkin's method (Ref.7) has been used for calculating the mean metal hardening in the deformation focus; the friction factor was assumed to be 0.1 for all cases. It has been revealed that phosphate-coating reduced friction better than electrolytic copper or zinc coating. In all experiments the blanks were dipped for 10-12 min into a bath containing 65-100 cm3/liter phosphating concentrate and 1-2 g/liter sodium nitrate and heated to 60-70°C. The phosphating concentrate consisted of 200 g/liter zinc oxide, 250 cm3/liter nitric acid (of 1.34-1.36 density) and 180 cm /liter orthophosphoric acid (1.7 -1.8 density). Phosphate coated blanks were immersed for 10 min into soap emulsion with water, with 58-60 g/liter fatty acids in emulsion heated to 70°C. The Minsk Tractor Plant has started the series output of cold-extruded parts. The dies for adapters and spring discs outlast 10-15 thousand operations; the punches lasted for 3,000 operations in the first lot of pushers from "20" steel. There are 5 figures and 8 references: 7 Soviet and 1 Czech.

card 3/5





ACCESSION NR AN4021941	BOOK EXPLOITATION	\$/
Filimonov, YU. F. (Engineer)	; Poznyak, L. A. (Candidate of Tec	•
Stamping by extrusion (entam 1964, 187 p. illus., bib	povka pressovaniyem), Moscow, izd- lio. 5,000 copies printed.	vo "Mashinostroyeniye",
OPIC TAGS: metallurgy, meta	l working, extrusion, steel, metal	working equipment
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	Ch. VI. Dies Ch. VII. Mate Ch. VIII. Pre Ch. IX. Mecha	and rams 8 rials for the esses for cold mitation and	66 dies 107 lextrusion 12 automation of co	28	- - 51.	æ	-
	Ch. A. Techni	.co-economical of basic types	efficiency of to of articles	the process and ex	amples of the co	ld	
	SUB CODE: MM	1.	SUBMITTED:	11Feb64 NR	REF SOV: 057		
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FILIMONOV, Yu.F., inzh.; POZNYAK, L.A., kand. tekhn. nauk;

MISOZHNIKOV, V.M., kand. tekhn. nauk, retsenzent; BABENKO,
V.A., inzh., red.

[Forging by extrusion] Shtampovka pressovaniem. Moskva, Mashinostroenie, 1964. 187 p. (MIRA 17:5)

EXT(d)/FSS-2/EEC(k)-2/EEC-4/EEC(t) Pn-4/Po-4/Pp-4/Pn-4/Pac-4/Pg-4/ PK-4/PI-4 ACCESSION NR : AP5008156 5/0286/65/000/005/0036/0036 AUTHORS: Kondobovskiy, A. I.; Filimonov, Yu. F. TITLE: A device for measuring maximal marginal distortion of telegraph signals. Class 21, No. 168749 SOURCE: Byulleten izobreteniy i tovarnykh znakov, no. 5, 1965, 36 TOPIC TAGS: telegraph signal, signal distortion ABSTRACT: This Author Certificate presents a device for measuring the maximal marginal distortion of telegraph signals with start-stop and synchronous distribution, nodal coincidence, and an indicator assemblage made up of discrete elements. For determining the maximal measured value of distortion at any given time interval, up to the moment of break, a recording assemblage, made up of ferritetransistor thigger plements, is placed between the coincidence node and the indicator unit. In order to compute the maximal distortion for each individual cycle, the circuit for returning to the initial state (break) of the recording-unit triggers is closed periodically, in time with the distributor. In order to determine the values of all distortions appearing during time of measurement, the power supply, in addition to the breaking circuit, is fed directly from the Card 1/2

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	negative side of the battery. This is effected by meens of the switch of the recording unit.						
	ASSOCIATION: none	홍하루 함께 보고 있는데 보다. 즐겁게 다음이 얼마를 하다					
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1 1 2011-07 MAT(M)/MAT(E)/MAT(E)/MTI TJT(E) FOR/JD/MJ/MJ
ACC MR: AR6013846 (A, M) SOURCE CODE: UR/0276/65/000/011/V009/V009

AUTHORS: Deordiyev, N. T.; Filimonov, Yu. F.

TIPLE: Multi-pass reduction with limit deformation

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11V65

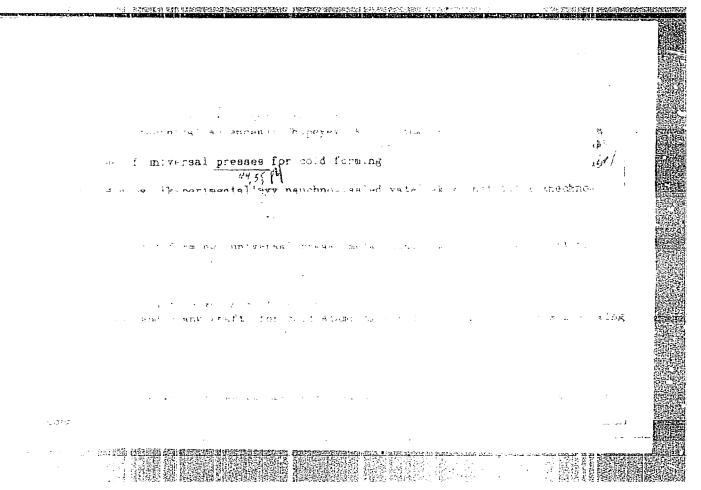
REF SOURCE: Materialy Eksperim. n.-i. in-ta kuznechno-pres. mashinostr., vyp. 12, 1965, 44-50

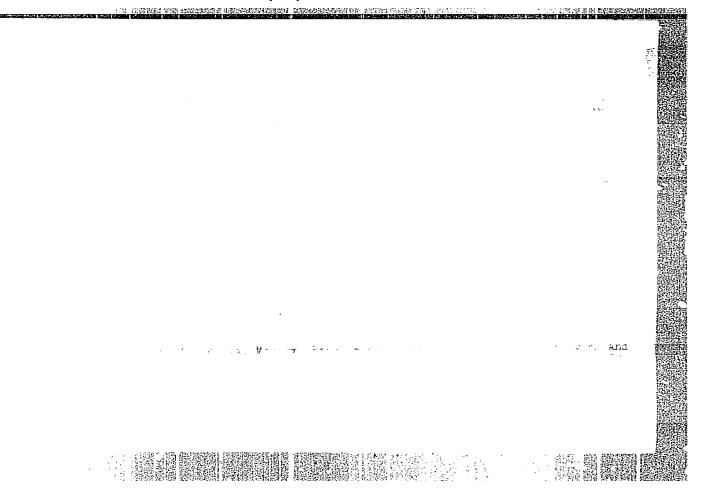
TOPIC TAGS: metal forming, metal rolling

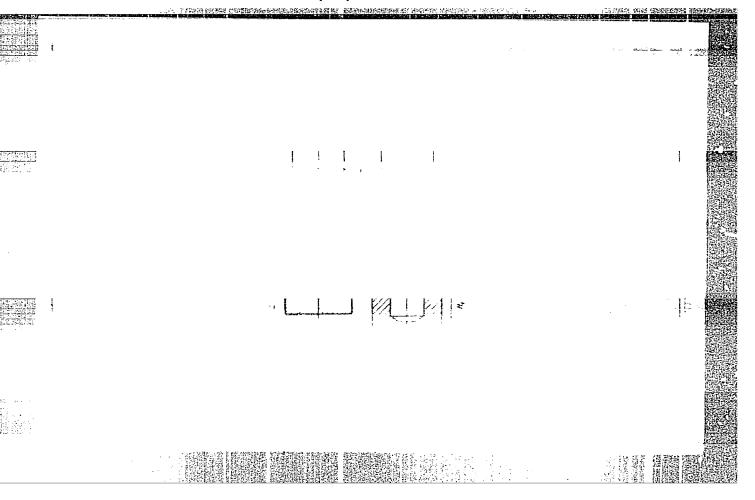
ABSTRACT: Experimental investigation of the multi-pass reduction process has confirmed the tendency towards increased limit deformations with increased number of cycles. A nomogram is constructed for finding the diameter increments of the blank for multi-pass reduction, considering limit deformations of the order of 15%. The equation for finding the power required for multi-pass reduction is derived. Graphs of the average axial stresses in the blank are constructed as a function of degree of deformation and number of passes. 3 illustrations. Bibliography of 5 titles. I. Gendlina /Translation of abstract/

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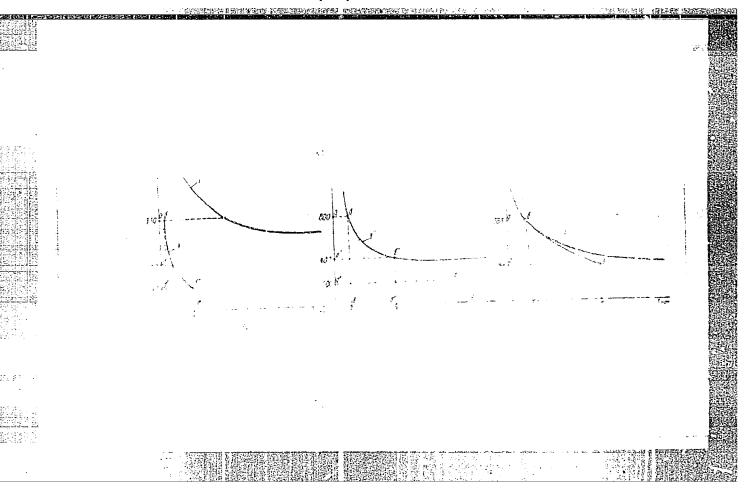
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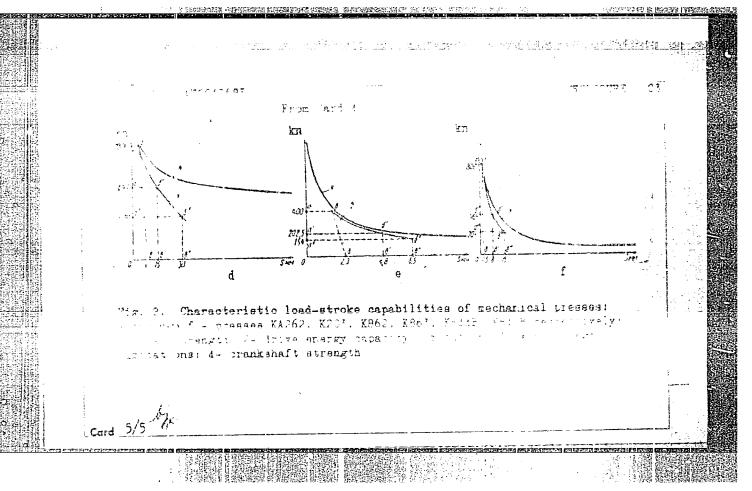






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Data on the phagocytic reaction of the blood in colienteritis in infants. Vop. okh. mat. 1 det. 6 no.3:38-42 Mr '61.

(MIRA 14:10)

1. Kafedra detskikh bolezney (zaveduyushchiy - kand.med.nauk B.G. Apostolov) Stavropol'skogo meditsinskogo instituta (direktor - prof. V.G.Budylin).

(INTESTINES.-DISEASES) (PHAGOCYTOSIS)

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Clinical picture, course, pathomorphological changes and dynamics of the phagocytic index in experimental colienteritis. Ibid.: 377-378

Specificity of the phagocytic reaction of the blood in colienteritis in young children. Ibid.: 379-380

Diagnostic importance of the phagocytic reaction of the blood in colienteritis in children. Ibid.:381-382

Dynamics of the phagocytic index of the blood in relation to pathogenic serotypes of Escherichia coli in children with gastrointestinal diseases in case of negative results of bacteriological examinations. Ibid.:383 (MIRA 17:9)

l. Kafedra detskikh bolezney (zav. dotsent B.G. Apostolov) Stavropol'skogo gosudarstvennogo meditsinskogo instituta.